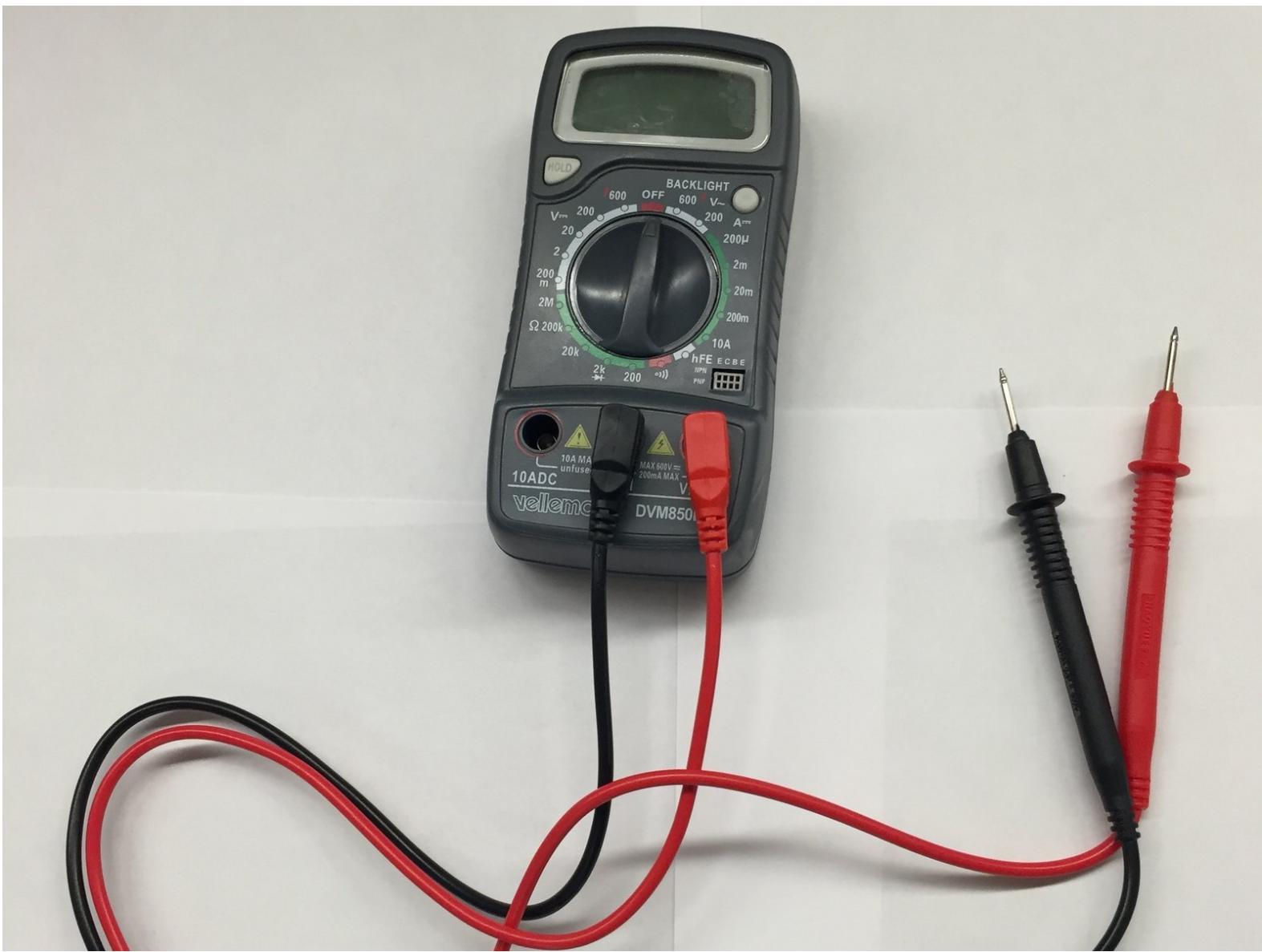




# Velleman DVM850BL Digital Multimeter Teardown

This teardown shows the internal circuitry of a digital multimeter.

Written By: Michael



## INTRODUCTION

This teardown shows the internal circuitry of a digital multimeter.

### TOOLS:

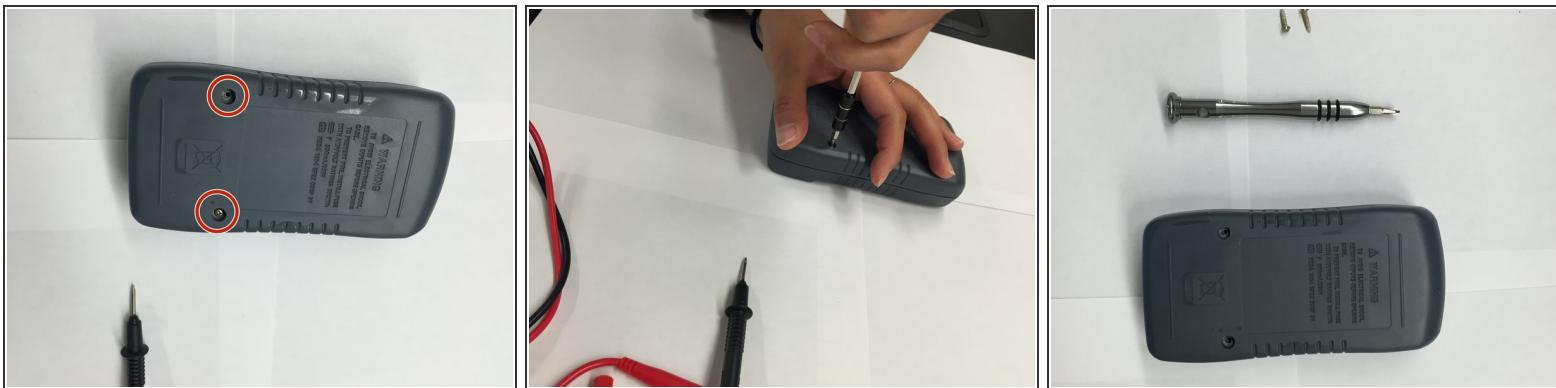
- JIS Driver Set (1)

## Step 1 — Removing Leads



- Remove lead connectors from front panel.

## Step 2 — Remove Back Casing Screws



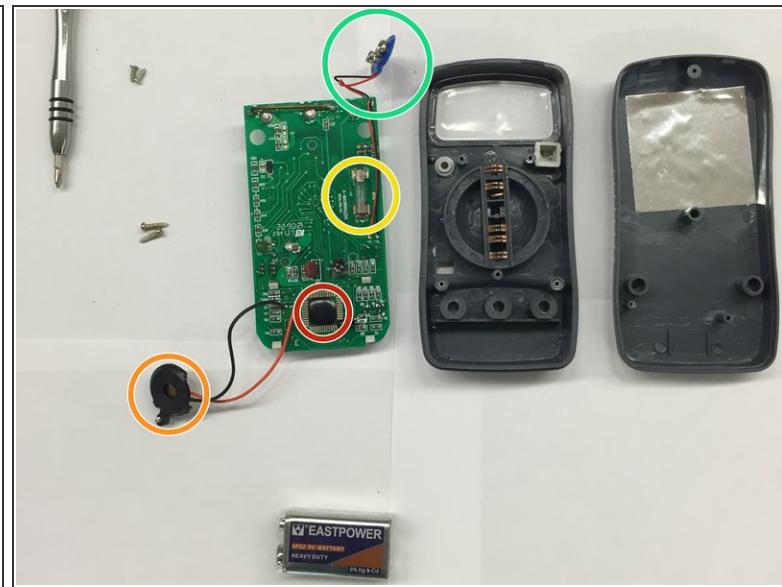
- Turn over the DVM and unscrew the two screws using a J1 bit.

## Step 3 — Battery and PCB Screw Removal



- Remove battery by gently disconnecting it from connector.
- Remove three screws using J1 bit.

## Step 4 — PCB Removal



- Remove PCB by gently pulling it away from the back encasing.
- Microprocessor
- Continuity Check Speaker
- Fuse
- 9 V Battery Connector

## Step 5 — Complete The Teardown



- Remove the knob and buttons from the front grey casing.

⚠ The measurement knob uses two ball bearings that allows the knob to rotate. These bearings are small and easy to lose.

- Backlight Toggle Button
- Measurement Hold Button
- LCD Plastic Cover
- Measurement Select Knob
- Measurement Select Knob Ball Bearings
- Success! You have finished tearing down the multimeter.